



European Patent Office
80298 MUNICH
GERMANY
Tel. +49 (0)89 2399 - 0
Fax +49 (0)89 2399 - 4465



MERH-IP
Matias Erny Reichl Hoffmann
Paul-Heyse-Strasse 29
80336 München
ALLEMAGNE

**For any questions about
this communication:**
Tel.: +31 (0)70 340 45 00

Date
05.03.10

Reference A6/26280A EP	Application No./Patent No. 08001529.0 - 2225 / 1914722
Applicant/Proprietor DOLBY LABORATORIES LICENSING CORPORATION	

Communication regarding the expiry of the time limit within which notice of opposition may be filed

You are hereby informed that on expiry of the nine-month time limit from the publication of the mention of the grant of European patent No. 1914722 no notice of opposition had reached the files.

The entry in the Register of European Patents will be automatically generated by the electronic data processing system.

For the Examining Division



EPPU 02: 29.04.09 2225



European Patent Office
80298 MUNICH
GERMANY
Tel. +49 (0)89 2399 - 0
Fax +49 (0)89 2399 - 4465



MERH-IP
Matias Erny Reichl Hoffmann
Paul-Heyse-Strasse 29
80336 München
ALLEMAGNE

**For any questions about
this communication:**
Tel.: +31 (0)70 340 45 00

Date
04.02.10

Reference A6/26280A EP	Application No./Patent No. 08001529.0 - 2225 / 1914722
Applicant/Proprietor DOLBY LABORATORIES LICENSING CORPORATION	

Communication of amended entries concerning the representative (R. 143(1)(h) EPC)

As requested, for the above-mentioned European patent application / European patent the entries concerning the representative have been amended as follows:

MERH-IP
Matias Erny Reichl Hoffmann
Paul-Heyse-Strasse 29
80336 München
DE

The amendment will be recorded in the Register of European Patents.

Client Data Registration

Tel.: +49 (0)89 2399 2780



08001529.0 - 2225 / 1914722

02.02.10

Client Database System (CDS) - clean up.

Application Nr.: 08001529.0

Following clean up action in CDS the entries concerning the **Representative for the applicant (association)** have been amended and are now as follows:

MERH-IP
Matias Erny Reichl Hoffmann
Paul-Heyse-Strasse 29
80336 München
DE

Where appropriate, the Register of European Patents will be updated to show the amended details.

For questions please contact the Client Data Registration department of the European Patent Office in Munich, telephone +49 (0)89 2399 2780.



Hoffmann, Eckart
Bahnhofstrasse 103
82166 Gräfelfing
ALLEMAGNE

**For any questions about
this communication:**

Tel.: +31 (0)70 340 45 00

Date

02.04.09

Reference A6/26280A EP	Application No./Patent No. 08001529.0 - 2225 / 1914722
Applicant/Proprietor DOLBY LABORATORIES LICENSING CORPORATION	

Decision to grant a European patent pursuant to Article 97(1) EPC

Following examination of European patent application No. 08001529.0 a European patent with the title and the supporting documents indicated in the communication pursuant to Rule 71(3) EPC dated 27.11.08 is hereby granted in respect of the designated Contracting States.

Patent No. : 1914722
Date of filing : 28.02.05
Priority claimed : 01.03.04/USP 549368
14.06.04/USP 579974
14.07.04/USP 588256

Designated Contracting States
and Proprietor(s) : AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU
MC NL PL PT RO SE SI SK TR
DOLBY LABORATORIES LICENSING CORPORATION
100 Potrero Avenue
San Francisco
California 94103-4813/US

This decision will take effect on the date on which the European Patent Bulletin mentions the grant (Art. 97(3) EPC).

The mention of the grant will be published in European Patent Bulletin 09/18 of 29.04.09.

Examining Division

Ramos Sanchez U

Coda R

Dobler E



ANMERKUNG ZUR ENTSCHEIDUNG ÜBER DIE ERTEILUNG
EINES EUROPÄISCHEN PATENTS (EPA Form 2006)

1. **EPA Informationsbroschüre "Nationales Recht zum EPÜ"**
Diese Broschüre enthält nützliche Informationen zu den formalen Erfordernissen und den Handlungen, die vor den Patentbehörden der Vertragsstaaten vorzunehmen sind, um Rechte in diesen Staaten zu erlangen. Da diese Handlungen einem ständigen Wandel unterworfen sind, sollte immer nur die neueste Ausgabe der Broschüre benutzt werden. Nachträgliche Informationen werden im Amtsblatt veröffentlicht.
2. **Übersetzung der europäischen Patentschrift nach Artikel 65 (1) des Europäischen Patentübereinkommens**
Sie werden erneut darauf hingewiesen, dass bestimmte Vertragsstaaten nach Artikel 65 (1) EPÜ eine Übersetzung der europäischen Patentschrift verlangen; hierauf wird in der Mitteilung gemäß Regel 71 (5) EPÜ verwiesen. Die Nichteinreichung dieser Übersetzung kann zur Folge haben, dass das Patent in dem betreffenden Staat/in den betreffenden Staaten als von Anfang an nicht eingetreten gilt. Weitere Einzelheiten entnehmen Sie bitte der oben genannten Broschüre.
3. **Zahlung von Jahresgebühren für europäische Patente**
Nach Artikel 141 EPU können "nationale" Jahresgebühren für das europäische Patent für die Jahre erhoben werden, die an das Jahr anschließen, in dem der Hinweis auf die Erteilung des europäischen Patents im "Europäischen Patentblatt" bekanntgemacht wird. Weitere Einzelheiten entnehmen Sie bitte der oben genannten Broschüre.

NOTE RELATING TO THE DECISION TO GRANT A
EUROPEAN PATENT (EPO Form 2006)

1. **EPO Information Brochure "National law relating to the EPC"**
This brochure provides useful information regarding formal requirements and the steps to be taken before the patent authorities of the Contracting States in order to acquire rights in those states. Since the necessary steps are subject to change the latest edition of the brochure should always be used. Subsequent information is published in the Official Journal.
2. **Translation of the European patent application under Article 65(1) of the European Patent Convention**
Your attention is again drawn to the requirements regarding translation of the European patent specification laid down by a number of Contracting States under Article 65(1) EPC, to which reference is made in the communication under Rule 71(5) EPC. Failure to supply such translation(s) may result in the patent being deemed to be void "ab initio" in the State(s) in question. For further details you are recommended to consult the above-mentioned brochure.
3. **Payment of renewal fees for European patents**
Under Article 141 EPC "national" renewal fees in respect of a European patent may be imposed for the years which follow that in which the mention of the grant of the European patent is published in the "European Patent Bulletin". For further details you are recommended to consult the above-mentioned brochure.

REMARQUE RELATIVE A LA DECISION DE DELIVRANCE
D'UN BREVET EUROPEEN (OEB Form 2006)

1. **Brochure d'information de l'OEB "Droit national relatif à la CBE"**
Cette brochure fournit d'utiles renseignements sur les conditions de forme requises et sur les actes à accomplir auprès des offices de brevet des Etats contractants aux fins d'obtenir des droits dans les Etats contractants. Etant donné que les actes indispensables sont susceptibles de modifications, il serait bon de toujours consulter la dernière édition de la brochure. Toute information ultérieure est publiée au Journal Officiel.
2. **Traduction du fascicule du brevet européen en vertu de l'article 65(1) de la Convention sur le brevet européen**
Votre attention est de nouveau attirée sur l'obligation faite par certains Etats contractants, en vertu de l'article 65(1) CBE, de fournir une traduction du fascicule du brevet européen, à laquelle il est fait référence dans la notification établie conformément à la règle 71(5) CBE. Si la(les) traduction(s) n'est(ne sont) pas fournie(s), le brevet européen peut, dès l'origine, être réputé sans effet dans cet(ces) Etat(s). Pour plus de détails, nous vous renvoyons à la brochure susmentionnée.
3. **Paiement des taxes annuelles pour le brevet européen**
Conformément à l'article 141 CBE des taxes annuelles "nationales" dues au titre du brevet européen peuvent être perçues pour les années suivant celle au cours de laquelle la mention de la délivrance du brevet européen est publiée au "Bulletin européen des brevets". Pour plus de détails, nous vous renvoyons à la brochure susmentionnée.

DIPL.-ING. ECKART HOFFMANN
PATENTANWALT · EUROPEAN PATENT ATTORNEY

EPO - Munich
70

13. März 2009

Patentanwalt Bahnhofstraße 103 D-82166 Gräfelfing

Europäisches Patentamt
Erhardtstraße 27

80298 München

BAHNHOFSTRASSE 103
D-82166 GRAEFELFING
TELEFON 089-8549017
TELEFAX 089-8549386
e-mail: mail@patpost.com

Zur Kasse

Ihr Zeichen
Your Reference

Unser Zeichen
Our Reference

A6/26280A EP

13. March 2009
Ho/ro

European Patent Application No. 08 001 529.0-2225

Applicant: DOLBY LABORATORIES LICENSING CORPORATION

In response to the Communication under Rule 71(3) EPC dated November 27, 2008 please find enclosed the translations of the claims into French and German. At the same time it is requested to debit the fees for grant and printing from our deposit account No. 28000720 with the EPO.

It is requested to deliver the certificate of the European patent together with one copy of the patent specification.


Eckart Hoffmann

Encl.
Translation of claims into
French and German;
EPO-Form 1010

Annex to EPO Form 2004, Communication pursuant to Rule 71(3) EPC

Bibliographical data of European patent application No. 08 001 529.0

For the intended grant of the European patent, the bibliographical data are set out below, for information:

Title of invention:

- Mehrkanalige Audiodekodierung
- Multichannel audio decoding
- Décodage audio multicanal

Classification: INV. G10L19/00 H04S3/02 H04S5/00

Date of filing: 28.02.2005

Priority claimed: US / 01.03.2004 / USP549368
US / 14.06.2004 / USP579974
US / 14.07.2004 / USP588256

Contracting States*
for which fees have
been paid:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL
PL PT RO SE SI SK TR

Extension States*
for which fees have
been paid:

Applicant(s):** DOLBY LABORATORIES LICENSING CORPORATION
100 Potrero Avenue
San Francisco
California 94103-4813
US

Inventor(s): Davis, Mark Franklin
Dolby Laboratories Licensing Corporation
100 Potrero Avenue
San Francisco, CA 94103-4813
US

*) If the time limit for the payment of designation fees according to Rule 39(1) EPC has not yet expired and the applicant has not withdrawn any designation, **all Contracting States/Extension States** are currently still deemed to be designated. See also Rule 71(8) EPC and, if applicable, the above Note to users of the automatic debiting procedure.

**) If two or more applicants have designated different Contracting States, this is indicated here.

Application No.:

08 001 529.0

IV.2. Patent classification

The classification indicated on the published patent application remains unchanged. It is as follows:

INV. G10L19/00 H04S3/02 H04S5/00

IV.3. Title of the invention

The title indicated on the published patent application remains unchanged. It reads as follows:

Mehrkanalige Audiodekodierung

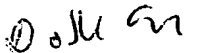
Multichannel audio decoding

Décodage audio multicanal

IV.4. Documentation

11. 11. 2003

Date



Dobler, Ervin
Chairman



Ramos Sánchez, U
1st examiner



Coda, Ruggero
2nd examiner



Hoffmann, Eckart
Bahnhofstrasse 103
82166 Gräfelfing
ALLEMAGNE

Formalities Officer
Name: Peter, Nicole
Tel: +49 89 2399 - 2262
or call
+31 (0)70 340 45 00

Application No. 08 001 529.0 - 2225	Ref. A6/26280A EP	Date 27.11.2008
Applicant DOLBY LABORATORIES LICENSING CORPORATION		

Communication under Rule 71(3) EPC

You are informed that the Examining Division intends to grant a European patent on the basis of the above application with the text and drawings as indicated below:

In the text for the Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Description, Pages

1-56 as originally filed

Claims, Numbers

1-12 received on 02.10.2008 with letter of 01.10.2008

Drawings, Sheets

1/11-11/11 as originally filed

With the following amendments to the above-mentioned documents by the examining division

Description, Pages	2*,10*,11*,27*,29*,32*,33*
Claims, Numbers	1+

Comments

* Guidelines C-II, 4.19 [NB: Rule 42(1)(b,c) in respect of page 2]

+ Article 84 EPC

A copy of the relevant documents is enclosed

The title of the invention in the three official languages of the European Patent Office, the international patent classification, the designated Contracting States, the registered name of the applicant and the bibliographic data are shown on the attached EPO Form 2056.

You are requested within a non-extendable period of **four months** of notification of this communication

1.	to file 1 set of translations of the claim(s) in the two other EPO official languages;		EUR
2a.	to pay the fee for grant including the fee for printing up to and including 35 pages; Reference 007		790.00
2b.	to pay the printing fee for the 36th and each subsequent page; number of pages: 34	Reference 008	408.00
3.	to pay the additional claim fee(s) (R. 71(6) EPC); number of claims fees payable:	Reference 016	0.00
		Total amount	1198.00

The mention of the grant of the patent shall be published in the European Patent Bulletin as soon as possible after the requirements concerning the translation of the claims and the payment of the fees for grant and printing, claims fees, designation fees and renewal fees as laid down in Rule 71(3), (4), (6) and (8) and (9) EPC are fulfilled.

Any divisional applications relating to this European patent application must be filed directly at the European Patent Office in Munich, The Hague or Berlin in accordance with Article 76(1) and Rule 36 EPC **before** the date on which the European Patent Bulletin mentions the grant of the patent (see Art. 97(3) EPC and OJ EPO 2/2002, 112).

If you do not approve the text intended for grant but wish to request amendments or corrections, the procedure described in Rule 71(4) EPC is to be followed.

If this communication is based upon an auxiliary request, and you reply within the time limit set that you maintain the main or a higher ranking request which is not allowable, the application will be refused (Art. 97(2) EPC).

If the enclosed claims contain amendments proposed by the Examining Division, and you reply within the time limit set that you cannot accept these amendments, refusal of the application under Article 97(2) EPC will result if agreement cannot be reached on the text for grant.

In all cases except those of the previous two paragraphs, if the fees for grant and printing or claims fees are not paid, or the translations are not filed, in due time, the European patent application will be deemed to be withdrawn (R. 71(7) EPC).

For all payments you are requested to use EPO Form 1010 or EPO Form 1010E or to refer to the relevant reference number.

After publication, the European patent specification can be downloaded free of charge from the EPO publication server <https://publications.european-patent-office.org> or ordered from the Vienna sub-office upon payment of a fee (OJ EPO 2005, 126).

Upon request in writing each proprietor will receive the certificate for the European patent **together with one copy** of the patent specification provided that the request is filed within the time limit of Rule 71(3) EPC. If such request has been previously filed, it has to be confirmed within the time limit of Rule 71(3) EPC. The requested copy is free of charge. If the request is filed after expiry of the Rule 71(3) EPC time limit, the certificate will be delivered without a copy of the patent specification (R.74 EPC, Decision of the President of the EPO, Special edition No.3, OJ EPO 2007, D.2).

Note on payment of renewal fees

If a renewal fee falls due between notification of the present communication and the proposed date of publication of the mention of the grant of the European patent, publication will be effected only after the renewal fee and any additional fee have been paid (R. 71(9) EPC).

Under Article 86(2) EPC, the obligation to pay renewal fees to the European Patent Office terminates with the payment of the renewal fee due in respect of the year in which the mention of the grant of the European patent is published.

Filing of translations in the Contracting States

As regards translation requirements prescribed by the Contracting States under Article 65(1) EPC, please consult the website of the European Patent Office

www.epo.org → Patents → Law → Legal texts → National law relating to the EPC

www.epo.org → Patents → Law → Legal texts → London Agreement

In case of a valid extension

As regards translation requirements prescribed by the Extension States, please consult the website of the European Patent Office

www.epo.org → Patents → Law → Legal texts → National law relating to the EPC

Failure to supply a prescribed translation in a Contracting State or an Extension State may result in the patent being deemed to be void *ab initio* in the State concerned (Article 65(3) EPC).

Important note to users of the automatic debiting procedure

The fees for grant and printing and also any additional claims fees due under Rule 71(6) EPC will be debited automatically on the date of filing of the translation of the (relevant) claims, or on the last day of the period of this communication. However, if the designation fees become due as set out in Rule 71(8) EPC and/or a renewal fee becomes due as set out in Rule 71(9) EPC, these should be paid separately by another permitted means of payment in order not to delay the publication of the mention of grant. The same applies in these circumstances to the payment of extension fees. For further details see the Arrangements for the automatic debiting procedure (AAD) and accompanying Information from the EPO concerning the automatic debiting procedure (Annexes A.1 and A.2 to the Arrangements for deposit accounts (ADA) in Supplement to OJ EPO 10/2007).

Examining Division:

Chairman:	Dobler, Ervin
2nd Examiner:	Coda, Ruggero
1st Examiner:	Ramos Sánchez, U



Peter, Nicole
For the Examining Division
Tel. No.: +49 89 2399 - 4252

Enclosure(s): Form 2056
 69 Copies of the relevant documents

DIPL.-ING. ECKART HOFFMANN
PATENTANWALT · EUROPEAN PATENT ATTORNEY

EPO - Munich
22
02 Okt. 2008

Patentanwalt Bahnhofstraße 103 D-82166 Gräfelfing

Europäisches Patentamt
Erhardtstraße 27

80298 München

BAHNHOFSTRASSE 103
D-82166 GRAEFELFING
TELEFON 089-8549017
TELEFAX 089-8549386
e-mail: mail@patpost.com

Ihr Zeichen
Your Reference

Unser Zeichen
Our Reference

A6/26280A EP

1. October 2008
Ho/ro

European Patent Application No. 08 001 529.0-2225

Applicant: DOLBY LABORATORIES LICENSING CORPORATION

For the present application the examination fee as well as the designation fees for all countries are paid by bank transfer to the EPO's account at Dresdner Bank.

At the same time a set of amended claims is submitted herewith together with an Annex, which includes a revision-marked copy that indicates the changes made with respect to the original claims.

The amended claims are deemed to overcome the objections raised in the Search Opinion (SO). Claim 1 is – as before – delimited with respect to WO 03/090208 A1. D1 discloses processing stereo or surround signals to enhance the existing uncorrelated ambience. D1 is not concerned with a decoding as defined in the present invention.

In the claims, the phrase *N audio channels* has been changed to *N audio signals* to avoid a confusion. The derived audio channels represent the output of the channel deriving paths, defined on page 11, lines 23 - 27 of the specification. At any point along the channel deriving paths, the audio channels have not been fully derived and may be considered intermediate signals. For instance, in figures 7 – 9, the intermediate signals could be the outputs of the upmix matrix. Alternatively, in figures 7 and 8, the intermediate signals could be the inputs to

the decorrelator boxes. In the claims as amended the *N audio signals* represent those intermediate signals.

Regarding item 2.1 of the SO, the characterizing portion of claim 1 has been amended to clarify the *first parameter* and the terms *uncorrelated* and *correlated*. In this context the passage *at least one of said N audio signals is a correlated signal comprised of a weighted combination of at least two of said M encoded audio channels*, has been added. Support for this can be found in figures 7 – 9, and page 53, line 20 – page 55, line 17 of the specification. Those skilled in the art know that an upmix matrix, whether passive or active, generates output signals that are weighted combinations of the input signals. Furthermore, because the output signals are constructed from weighted combinations of input signals, it is implied that there will be some correlation between at least some output channels. Therefore, based on the additional limitation mentioned above, it should be understood that at least some of the N audio signals are correlated signals.

Referring to item 2.2 of the SO, the element indicating that an audio signal is divided into a plurality of frequency bands remains unchanged as it is used as an antecedent for claim 5.

As will be understood from the attached revision-marked copy of the amended claims, the dependent claims have been amended to be consistent with claim 1 as amended.

Substantive examination on the basis of the claims as amended by this submission is respectfully requested.


Eckart Hoffmann

Encl.:
EPO Form 1010
Claims 1 to 12
Annex

Claims

5

1. A method for decoding M encoded audio channels representing N audio channels, where N is two or more, and a set of one or more spatial parameters, the method comprising:
 - a) receiving said M encoded audio channels and said set of spatial parameters,
 - 10 b) deriving N audio signals from said M encoded channels, wherein each audio signal is divided into a plurality of frequency bands, wherein each band comprises one or more spectral components, and
 - c) generating a multichannel output signal from the N audio signals and the spatial parameters,
- 15 **characterized in that**
M is two or more,
at least one of said N audio signals is a correlated signal comprised of a weighted combination of at least two of said M encoded audio channels,
said set of spatial parameters includes a first parameter indicative of the amount of an
20 uncorrelated signal to mix with a correlated signal and
step c) includes deriving at least one uncorrelated signal from said at least one correlated signal, and controlling the proportion of said at least one correlated signal to said at least one uncorrelated signal in at least one channel of said multichannel output signal in response to one or ones of said spatial parameters, wherein said controlling is
25 at least partly in accordance with said first parameter.
2. The method of claim 1 wherein step c) includes deriving said at least one uncorrelated signal by applying an artificial reverberation filter to said at least one correlated signal.
- 30 3. The method of claim 1 wherein step c) includes deriving said at least one uncorrelated signal by applying a plurality of artificial reverberation filters to said at least one correlated signal.

4. The method of claim 3 wherein each of said plurality of artificial reverberation filters has a unique filter characteristic.
5. The method of claim 1 wherein said controlling in step c) includes deriving a separate proportion of said at least one correlated signal to said at least one uncorrelated signal for each of said plurality of frequency bands, at least partly in accordance with said first parameter.
6. The method of claim 1 wherein said N audio signals are derived from said M encoded audio channels by a process that includes dematrixing said M encoded audio channels.
7. The method of claim 6 wherein the dematrixing operates at least partly in response to one or ones of said spatial parameters.
8. The method of any of claims 1 – 7 further comprising shifting the magnitudes of spectral components in at least one of said N audio signals in response to one or ones of said spatial parameters.
9. The method of any of claims 1 – 8 wherein said multichannel output signal is in the time domain.
10. The method of any of claims 1 – 8 wherein said multichannel output signal is in the frequency domain.
11. The method of any of claims 1 – 10 wherein N is 3 or more.
12. An apparatus comprising means adapted to carry out each of the steps of any one of the methods of claims 1 – 11.

ANNEX

Claims

5

1. A method for decoding M encoded audio channels representing N audio channels, where N is two or more, and a set of one or more spatial parameters, the method comprising:

- a) receiving said M encoded audio channels and said set of spatial parameters,
b) deriving N audio signals ~~channels~~ from said M encoded channels, wherein ~~an~~each
10 audio signal ~~in each audio channel~~ is divided into a plurality of frequency bands, wherein each band comprises one or more spectral components, and
c) generating a multichannel output signal from the N audio signals~~channels~~ and the spatial parameters,

characterized in that

15

M is two or more ~~and~~,

at least one of said N audio signals is a correlated signal comprised of a weighted combination of at least two of said M encoded audio channels,

said set of spatial parameters includes a first parameter indicative of the amount of an uncorrelated signal to mix with a correlated signal~~derived audio channel~~ -and;

20

step c) includes deriving at least one uncorrelated signal from said at least one correlated signal, and controlling the proportion of said at least one correlated signal to said at least one uncorrelated signal in at least one channel of said multichannel output signal~~of the N audio channels~~ in response to one or ones of said spatial parameters, wherein said controlling is at least partly in accordance with said first parameter.

25

2. The method of claim 1 wherein ~~an~~step c) includes deriving said at least one uncorrelated signal is generated by applying an artificial reverberation filter to a ~~correlated~~said at least one -correlated signal.

30

3. The method of claim 2 wherein step c) includes deriving said at least one uncorrelated signal by applying a plurality of artificial reverberation filters to said at least one correlated ~~is used to generate a plurality of uncorrelated~~ signals.

4. The method of claim 3 wherein each of ~~the said~~ plurality of artificial reverberation filters ~~uses has its own~~ a unique filter characteristic.

5. The method of claim 1 wherein said controlling in step c) includes deriving a separate proportion of said at least one correlated signal to said at least one uncorrelated signal is ~~derived~~ for each of said plurality of frequency bands, at least partly in accordance with said first parameter.

6. The method of claim 1 wherein said N audio ~~channels~~ signals are derived from said M encoded audio channels by a process that includes dematrixing said M encoded audio channels.

7. The method of claim 6 wherein the dematrixing operates at least partly in response to one or ones of said spatial parameters.

8. The method of any of claims 1 – 7 further comprising shifting the magnitudes of spectral components in ~~the~~ at least one of said N audio signals in response to one or ones of said spatial parameters.

9. The method of any of claims 1 – 8 wherein said multichannel output signal is in the time domain.

10. The method of any of claims 1 – 8 wherein said multichannel output signal is in the frequency domain.

11. The method of any of claims 1 – 10 wherein N is 3 or more.

12. An apparatus comprising means adapted to carry out each of the steps of any one of the methods of claims 1 – 11.



Hoffmann, Eckart
Bahnhofstrasse 103
82166 Gräfelfing
ALLEMAGNE

**For any questions about
this communication:**

Tel.: +31 (0)70 340 45 00

Date
28.04.08

Reference A6/26280A EP	Application No./Patent No. 08001529.0 - 2225
Applicant/Proprietor DOLBY LABORATORIES LICENSING CORPORATION	

**Communication pursuant to Rule 69 EPC - reminder of payment of the designation fees
(Art. 79(2) EPC) and of the examination fee (Art. 94(1) EPC)**

The date on which the European Patent Bulletin mentions the publication of the European search report for the above-mentioned European patent application is 23.04.08.

Your attention is drawn to Article 79(2) and (3) and Rule 39(1)-(4) EPC as well as Article 94(2) and Rule 70(1) EPC according to which within **six months** after the above-mentioned publication date of the search report

- the designation fee(s) must be paid,
- a request for examination must be made by payment of the examination fee.

If the written request for examination is filed in an admissible non-EPO language in accordance with Article 14(4) EPC, a reduction of the examination fee according to Rule 6(3) EPC applies.

The current rate of the designation fee for each Contracting State designated is: EUR 85,00
The payment of seven times the amount of the designation fee is deemed to constitute payment of the designation fees for all Contracting States (see OJ EPO 1999, 405).

The current rate of the examination fee is: EUR 1405,00

If at least one designation fee and the examination fee are not paid within the period laid down in Rule 39(1) or 70(1) EPC, the application shall be deemed to be withdrawn (Art. 94(2) and R. 39(3) EPC).

Any extension fees are also payable within the above-mentioned period.

Note to users of the automatic debiting procedure

Designation fees

Seven times the amount of the designation fee will be debited on the last day of the period pursuant to Rule 39(1) EPC. However, if Contracting States are indicated in the Request for Grant (EPO Form 1001), the designation fees only for these Contracting States will be debited **unless** instructions to the contrary have reached the EPO within the basic period for paying the designation fees.

Examination fee

Unless the EPO receives prior instructions to the contrary, the examination fee will be debited on the last day of the period for payment.

For further details see the Arrangements for the automatic debiting procedure, Supplement to OJ EPO 10/2007.

Receiving Section



Hoffmann, Eckart
Bahnhofstrasse 103
82166 Gräfelfing
ALLEMAGNE

**For any questions about
this communication:**
Tel.: +31 (0)70 340 45 00

Date

27.03.08

Reference
A6/26280A EP

Application No./Patent No.
08001529.0 - 2225

Applicant/Proprietor

DOLBY LABORATORIES LICENSING CORPORATION

Notification of European publication number and information on the application of Article 67(3) EPC

You are hereby informed that the technical preparations for the publication of the above-mentioned European patent application have been completed.

The application will be published on 23.04.08 with the European search report.

The publication number is: 1914722.

The publication will be mentioned in European Patent Bulletin number 2008/17.

(<http://bulletin.european-patent-office.org>).

The provisional protection under Article 67(1) and (2) EPC in the individual contracting states becomes effective only when the conditions referred to in Article 67(3) EPC have been fulfilled. For further information, also with respect to extension states, please refer to the EPO brochure "National Law relating to the EPC" (<http://www.european-patent-office/legal/national/index.htm>).

The title of the invention in the three official languages of the European Patent Office is worded as follows:

Mehrkanalige Audiodekodierung
Multichannel audio decoding
Décodage audio multicanal

In all future communications to the EPO, please quote the application number as indicated above, i.e. including the final four figures (which identify the Directorate responsible for the subsequent procedure).

Remark

The publication can be downloaded, free of charge, from the EPO publication server

<https://publications.european-patent-office.org> or can be ordered from the Vienna sub-office upon payment of a fee (see Decision of the President of the EPO dated 12 July 2007 concerning the the form of publication of European patent applications, European search reports and European patent specifications, Special edition No. 3, OJ EPO 2007, 99).

Receiving Section



The examination is being carried out on the **following application documents**:

Description, Pages

1-56 as originally filed

Claims, Numbers

1-12 as originally filed

Drawings, Sheets

1/11-11/11 as originally filed

- 1 Reference is made to the following documents; the numbering will be adhered to in the rest of the procedure:

D1: US 2002/015505 A1 (KATZ ROBERT A [US]) 7 February 2002 (2002-02-07)

- 2 Claim 1 does not meet the clarity requirements set forth in Article 84 EPC.

- 2.1 Owing to the vagueness of the term "first parameter indicative of the amount of an uncorrelated signal to mix with a derived audio channel", according to which quite a broad interpretation can be accorded, practically any kind of information making possible to derive audio channels from an encoded representation would fall within such wording.
- 2.2 Furthermore, the feature "wherein an audio signal in each audio channel is divided into a plurality of frequency bands, wherein each band comprises one or more spectral components" appears to play no role whatsoever for decoding and rather seems to state the obvious, as any audio signal can be considered as being divided into the "plurality of frequency bands [...]" it consists of.

- 3 As a result, in the present wording, D1 (see page 1, paragraph 9; page 3, paragraph 47; page 4, paragraph 68; page 4, paragraph 77) is considered detrimental to the novelty (Article 54 EPC) of claim 1 (accordingly claim 12).
- 4 As for claims 2-11, their additional features do not appear appropriate to file new independent claims that would be considered allowable with regard to novelty and inventive step (Article 54, 56 EPC), because they concern well known measures that are to be considered as design options within the competence of the skilled person.



Hoffmann, Eckart
Bahnhofstrasse 103
82166 Gräfelfing
ALLEMAGNE

**For any questions about
this communication:**

Tel.: +31 (0)70 340 45 00

Date

25.03.08

Reference
A6/26280A EP

Application No./Patent No.
08001529.0 - 2225

Applicant/Proprietor

DOLBY LABORATORIES LICENSING CORPORATION

Communication

The extended European search report is enclosed.

The extended European search report includes, pursuant to Rule 62 EPC, the European search report (R. 61 EPC) or the partial European search report/ declaration of no search (R. 63 EPC) and the European search opinion.

Copies of documents cited in the European search report are attached.

☒ 1 additional set(s) of copies of such documents is (are) enclosed as well.

The following have been approved:

☒ Abstract ☐ Title

☐ The Abstract was modified and the definitive text is attached to this communication.

The following figure will be published together with the abstract: 7

Refund of the search fee

If applicable under Article 9 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2002/015505 A1 (KATZ ROBERT A [US]) 7 February 2002 (2002-02-07) * page 1, paragraph 9 * * page 3, paragraph 47 * * page 4, paragraph 68 * * page 4, paragraph 77 *	1-12	INV. G10L19/00 H04S3/02 H04S5/00
A	WO 03/069954 A (KONINKLIJKE PHILIPS ELECTRONICS N.V; VAN DE PAR, STEVEN, L., J., D., E) 21 August 2003 (2003-08-21) * page 2, line 25 - line 31 * * page 3, line 18 - line 20 * * page 3, line 31 - line 34 * * page 4, line 9 - line 12 * * page 6, line 15 - line 18 * * page 9, line 30 - line 33 *	1-12	
A	WO 03/090208 A (KONINKLIJKE PHILIPS ELECTRONICS N.V; BREEBAART, DIRK, J; VAN DE PAR, S) 30 October 2003 (2003-10-30) * claim 5 * * page 2, line 1 - line 7 * * page 19, line 25 - page 20, line 20 *	1-12	
			TECHNICAL FIELDS SEARCHED (IPC)
			G10L H04S
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 13 March 2008	Examiner Ramos Sánchez, U
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 08 00 1529

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

13-03-2008

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2002015505	A1	07-02-2002	NONE		

WO 03069954	A	21-08-2003	AT	315823 T	15-02-2006
			AU	2003201097 A1	04-09-2003
			CN	1705980 A	07-12-2005
			DE	60303209 T2	31-08-2006
			ES	2255678 T3	01-07-2006
			JP	2005517987 T	16-06-2005
			US	2005078832 A1	14-04-2005

WO 03090208	A	30-10-2003	AT	385025 T	15-02-2008
			AU	2003219426 A1	03-11-2003
			BR	0304540 A	20-07-2004
			CN	1647155 A	27-07-2005
			JP	2005523480 T	04-08-2005

28. Jan. 2008

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2005/006359

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 235 646 A (WILDE ET AL) 10 August 1993 (1993-08-10) column 2, line 59 - line 67 column 3, line 14 - line 20 column 4, line 53 - line 56 column 4, line 60 - column 5, line 11 column 5, line 25 - line 29 column 6, line 1 - line 13 column 9, line 22 - line 28	18-38, 58, 59
X	WO 91/20164 A (AURIS CORP) 26 December 1991 (1991-12-26) page 4, line 7 - page 5, line 14 page 6, line 13 - line 26	18, 39-56, 58, 59, 62
X	WO 03/090208 A (KONINKLIJKE PHILIPS ELECTRONICS N.V; BREEBAART, DIRK, J; VAN DE PAR, S) 30 October 2003 (2003-10-30) claim 5 page 2, line 1 - line 7 page 19, line 25 - page 20, line 20	57
A	US 6 021 386 A (DAVIS ET AL) 1 February 2000 (2000-02-01) cited in the application column 21, line 24 - line 30 column 21, line 61 - column 22, line 37	1-62
A	"ATSC STANDARD: Digital Audio Compression (AC-3), Revision A, Doc A/52A" ATSC STANDARD, 20 August 2001 (2001-08-20), pages 1-140, XP002322551 cited in the application page 79 - page 85 page 92 - page 98 page 112 page 114 - page 115	1-62
A	SCHUIJERS E ET AL: "ADVANCES IN PARAMETRIC CODING FOR HIGH-QUALITY AUDIO" PREPRINTS OF PAPERS PRESENTED AT THE AES CONVENTION, 22 March 2003 (2003-03-22), pages 1-11, XP008021606 cited in the application page 6 - page 8	1-62

INTERNATIONAL SEARCH REPORT

ational Application No
PCT/US2005/006359

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G10L19/00 H04S3/02 H04S5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G10L H04S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 03/069954 A (KONINKLIJKE PHILIPS ELECTRONICS N.V; VAN DE PAR, STEVEN, L., J., D., E) 21 August 2003 (2003-08-21)</p> <p>page 2, line 25 - line 31 page 3, line 18 - line 20 page 3, line 31 - line 34 page 4, line 9 - line 12 page 6, line 15 - line 18 page 9, line 30 - line 33</p> <p style="text-align: center;">-/--</p>	1-17, 58-62

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

23 May 2005

Date of mailing of the international search report

06/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Ramos Sánchez, U